



Novel P Devlin Changes.ST25.txt
SEQUENCE LISTING

<110> Zengen, Inc.

<120> Modified Alpha-MSH Peptides and Derviatives Thereof

<130> 54275.8016.US01

<140> 10/714,343

<141> 2003-11-14

<160> 46

<170> PatentIn version 3.1

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<222> (7)..(7)

<223> X is DPhe

<400> 1

His Phe Arg Trp Gly Lys Xaa Val
1 5

<210> 2

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<223> Designed Peptide

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<222> (2)..(2)

<223> X is Phe or DNal

<400> 2

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His Xaa Phe Trp Gly Lys Pro Val
1 5

<210> 3
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<223> X is Phe or DPhe

<400> 3

His Xaa Arg Trp Gly Lys Xaa Val
1 5

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<222> (7)..(7)
<223> X is an amino acid bearing a non-polar fnc group.

<400> 4

His Phe Arg Trp Gly Lys Xaa Val
1 5

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<222> (8)..(8)
<223> X is an aa other than val having a non-polar functional group o

r
a hydrophobic functional group.

<400> 5

His Phe Arg Trp Gly Lys Pro Xaa
1 5

<210> 6

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<212> PRT

<213> Artificial

<220>

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<222> (6)..(6)

<223> X is an aa, not including Lys, having a non-polar functional group.
p.

<400> 6

His Phe Arg Trp Gly Xaa Pro Val
1 5

<210> 7

<211> 8

<212> PRT

<213> Artificial

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<221> MISC_FEATURE

<222> (7)..(7)

<223> X is an aa with positively charged functional group.

<400> 7

His Phe Arg Trp Gly Lys Xaa Val
1 5

<210> 8

<211> 8

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<212> PRT
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<220>
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<222> (7)..(7)
<223> X is an aa having a negatively charged functional group.

<400> 8

His Phe Arg Trp Gly Lys Xaa Val
1 5

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<222> (2)..(7)
<223> X at 2 is DPhe or DNal and X at 7 is an aa having a negatively
ch
arged functional group

<400> 9

His Xaa Arg Trp Gly Lys Xaa Val
1 5

<210> 10
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<222> (4)..(4)
<223> Trp is DTrp

<400> 10

His Phe Arg Trp Gly Lys Pro Val

1 5

<210> 11
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<223> X is an uncharged functional group polar aa.

<400> 11

His Phe Arg Trp Gly Lys Xaa Val
1 5

<210> 12
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<223> X at 2 is DPhe or DNal; X at 7 is an aa with an uncharged polar
f
unctional group.

<400> 12

His Xaa Arg Trp Gly Lys Xaa Val
1 5

<210> 13
<211> 13
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<213> Homo sapiens

<400> 13

Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val
1 5 10

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<210> 14
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<212> PRT
<213> Homo sapiens

<400> 14

Ser Tyr Ser Met Glu His Phe Arg Trp Gly Lys Pro Val Gly Lys Lys
1 5 10 15

Arg Arg Pro Val Lys Val Tyr Pro Ala Lys Glu Asp Asp Glu Ala Ser
20 25 30

Glu Ala Phe Pro Leu Glu Phe
35

<210> 15
<211> 7
<212> PRT
<213> Artificial

<400> 15

Met Glu His Phe Arg Trp Gly
1 5

<210> 16
<211> 3
<212> PRT
<213> Artificial

<400> 16

Lys Pro Val
1

<210> 17
<211> 4
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<400> 17

His Phe Arg Trp
1

<210> 18

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<212> PRT

<213> Artificial

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<221> MISC_FEATURE

<222> (8)..(8)

<223> Val is DVal

<400> 18

His Phe Arg Trp Gly Lys Pro Val
1 5

<210> 19

<211> 8

<212> PRT

<213> Artificial

<400> 19

His Phe Arg Trp Gly Ala Pro Val
1 5

<210> 20

<211> 8

<212> PRT

<213> Artificial

<400> 20

His Phe Arg Trp Gly Lys Ala Val
1 5

<210> 21

<211> 8

<212> PRT

<213> Artificial

<400> 21

His Phe Arg Trp Gly Lys Pro Ala
1 5

<210> 22

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<222> (2)..(2)

<223> Phe is DPhe

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His Phe Arg Trp Gly Lys Pro Val
1 5

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<222> (2)..(2)

<223> X is DNal

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His Xaa Arg Trp Gly Lys Pro Val
1 5

<210> 24

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Novel P Devlin Changes.ST25.txt

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<222> (4)..(4)
<223> Trp is DTrp

<400> 24

His Phe Arg Trp Gly Lys Pro Val
1 5

<210> 25
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<400> 25

His Phe Arg Trp Gly Lys Pro Leu
1 5

<210> 26
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<222> (7)..(7)
<223> Ala is DAla

<400> 26

His Phe Arg Trp Gly Lys Ala Val
1 5

<210> 27
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<221> MISC_FEATURE
<222> (2)..(2)
<223> X is DNal

Novel P Devlin Changes.ST25.txt

<400> 27

His Xaa Arg Trp Gly Lys Ala Val
1 5

<210> 28

<211> 8

<212> PRT

<213> Artificial

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<221> MISC_FEATURE

<222> (2)..(7)

<223> X is DNal; Ala is DAla

<400> 28

His Xaa Arg Trp Gly Lys Ala Val
1 5

<210> 29

<211> 8

<212> PRT

<213> Artificial

<400> 29

His Phe Arg Trp Gly Lys Gly Val
1 5

<210> 30

<211> 8

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<222> (2)..(2)

<223> X is DNal

<400> 30

Novel P Devlin Changes.ST25.txt

His Xaa Arg Trp Gly Lys Gly Val
1 5

<210> 31
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<212> PRT
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<400> 31

His Phe Arg Trp Gly Lys Ser Val
1 5

<210> 32
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<222> (2)..(2)
<223> X is DNal

<400> 32

His Xaa Arg Trp Gly Lys Ser Val
1 5

<210> 33
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<212> PRT
<213> Artificial

<400> 33

His Phe Arg Trp Gly Lys Phe Val
1 5

<210> 34
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Novel P Devlin Changes.ST25.txt

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<223> Phe is DPhe

<400> 34

His Phe Arg Trp Gly Lys Phe Val
1 5

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<223> Phe is DPhe at 2 and 7

<220>
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<222> (2)..(2)
<223> Phe is DPhe at 2

<400> 35

His Phe Arg Trp Gly Lys Phe Val
1 5

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<222> (2)..(7)
<223> Phe is DPhe at 2 and 7

<400> 36

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His Phe Arg Trp Gly Lys Phe Val
1 5

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<211> 8
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<220>
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<222> (2)..(2)
<223> X is DNal

<400> 37

His Xaa Arg Trp Gly Lys Phe Val
1 5

<210> 38
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<212> PRT
<213> Artificial

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<222> (2)..(7)
<223> X is DNal Phe is DPhe at 7

<400> 38

His Xaa Arg Trp Gly Lys Phe Val
1 5

<210> 39
<211> 8
<212> PRT
<213> Artificial

<400> 39

His Phe Arg Trp Gly Lys Asp Val
1 5

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<210> 40
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<212> PRT
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<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Asp is DAsp

<400> 40

His Phe Arg Trp Gly Lys Asp Val
1 5

<210> 41
<211> 8
<212> PRT
<213> Artificial

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Phe at 2 is DPhe

<400> 41

His Phe Arg Trp Gly Lys Asp Val
1 5

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<212> PRT
<213> Artificial

<220>
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<222> (2)..(2)
<223> X is DNal

<400> 42

Novel P Devlin Changes.ST25.txt

His Xaa Arg Trp Gly Lys Asp Val
1 5

<210> 43
<211> 8
<212> PRT
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<400> 43

His Phe Arg Trp Gly Lys Glu Val
1 5

<210> 44
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<223> X is DNal

<400> 44

His Xaa Arg Trp Gly Lys Glu Val
1 5

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<400> 45

His Phe Arg Trp Gly Lys Lys Val
1 5

<210> 46
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Novel P Devlin Changes.ST25.txt

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<222> (2)..(2)

<223> X is DNal

<400> 46

His Xaa Arg Trp Gly Lys Lys Val

1

5